



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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TO: Barbara O'Grady, CDPHE

FROM: Victor Ketellapper, USEPA

SUBJECT: August thru December 2005 Progress Report on the Remedial Action at the Vasquez Boulevard/Interstate 70 Superfund Site, Operable Unit 01

This monthly progress report was prepared and submitted to the Colorado Department of Public Health and the Environment as required in the *Superfund State Contract for Remedial Action Implementation, Vasquez Boulevard/Interstate 70, Operable Unit 01*. The report describes the work completed during the preceding month for each activity, a summary of expenditures, a summary of change orders and claims, and a description of whether the project is on schedule and within budget, and an estimate of variances expected at the project completion.

**Activities Completed During the Month**

The following is a summary of the activities completed for each component of the remedy during the month. Summary tables of the funds obligated and the expenses that have been paid for each component of the remedy are attached for each of the months from August through December, 2005. The project is expected to be completed under it's budget of \$26.0 million.

Soil Removal and Replacement

Properties Completed in 1998 (Time Critical Removal Action)	18
Properties Completed in 2000 (Time Critical Removal Action)	31
Properties Completed in 2003 (Non-Time Critical Removal Action)	133
Properties Completed in 2004	326
Properties Completed by EPA in 2005	135
Properties Completed by ASARCO in 2005	70
Total Properties Completed	713
Cleanups Required (ROD Estimate)	853

- There remains 182 homeowners that have not provided voluntary access for soil sampling.
- Soil removal and replacement operations were shut down for the winter in December.

3. Soil sampling of residential properties that have not been adequately evaluated for lead and arsenic.

#### Soil Removal and Replacement

Soil removal and replacement will occur at properties that have levels of lead and/or arsenic in the soil greater than the action level as described in the ROD. For properties which soil removal is conducted, all accessible soil will be removed to a depth of 12 inches. The excavation areas will be backfilled with clean soil, and yard features will be restored to the extent practicable, in consultation with the property owner. All excavated soils will be transported to an acceptable receiving facility.

Soil removal and replacement will include the following activities:

1. Access Agreements and Property Owner Authorization
2. Property Specific Design
3. Evaluation of Exterior Lead Based Paint
4. Supplemental Sampling of Garden Areas
5. Lead Based Paint Abatement if Needed to Protect the Soil Replacement Remedy
6. Soil Removal
7. Soil Transportation and Disposal
8. Backfill and Restoration of Excavated Areas
9. Post Construction Maintenance
10. Follow-Up Activities

A detailed description of each of these activities is found in the "Remedial Design Work Plan for Soil Sampling and Remediation Program" dated March 2003.

#### Community Health Program

The Community Health Program consists of community and individual health education, a biomonitoring program to measure urinary arsenic levels and blood lead levels in children, and a response program that includes the necessary follow-up environmental sampling, home investigations, and referral to programs available to conduct response actions. The first element will address risks to area children from sources of lead. The second element will be designed to address children with soil pica behavior, to reduce their risks to arsenic in soil above 47 ppm. Participation in the program will be voluntary. The Community Health Program will be implemented on an ongoing basis until the residential soil removal portion of this remedial action has been completed.

The "Community Health Program Design Work Plan" dated March 2003 provides guidelines for implementing the Community Health Program. Specific actions conducted as part of the Community Health Program will be tailored to each of the neighborhoods within the Site.

Vasquez Boulevard/Interstate 70 Superfund Site  
Estimated Project Expenditures  
For August, 2005

Item	Funds Obligated	Expenditures			SSC Budget
		This Month	Previous	Total	
Residential Property Cleanup					
Army Corps of Engineers IAG # DW-96-9539110-0	\$10,927,244	\$298,062	\$6,106,193	\$6,404,255	
Community Relations Plan (Summit Tech Resources)	\$65,000	\$0	\$62,806	\$0	
Subtotal - Residential Property Cleanup	\$10,992,244	\$298,062	\$6,168,999	\$6,404,255	\$21,500,000
Community Health Program					
City of Denver (V97810501)	\$1,119,652	\$46,044	\$63,079	\$109,123	
CDPHE - Environmental Epidemiology (V97810101)	\$568,902	\$14,782	\$131,340	\$146,122	
Subtotal - Community Health Program	\$1,688,554	\$60,826	\$194,419	\$255,245	\$1,500,000
Soil Sampling					
URS - START 2 Contract TDD 0305-0005A (1)	\$250,000	\$41,328	\$193,695	\$235,023	\$400,000
Subtotal - Soil Sampling		\$41,328	\$193,695	\$235,023	
Total Obligated/Expenditures/Budget	\$12,930,798	\$400,216	\$6,557,113	\$6,894,523	\$23,400,000
Contingency					\$2,600,000
Total Budget					\$26,000,000

Notes:

1) \$50,000 of the funds in this TDD were obligated prior to the beginning of this RA. The expenditures shown only reflect only the portion of the funds expended as part of the remedial action.

Vasquez Boulevard/Interstate 70 Superfund Site  
 Estimated Project Expenditures  
 For Sept, 2005

Item	Funds Obligated	This Month	Expenditures Previous	Total	SSC Budget
Residential Property Cleanup					
Army Corps of Engineers IAG # DW-96-953911U-0	\$10,927,244	\$660,526	\$6,404,255	\$7,064,781	
Community Relations Plan (Summit Tech Resources)	\$65,000	\$0	\$62,806	\$62,806	
Subtotal - Residential Property Cleanup	\$10,992,244	\$660,526	\$6,467,061	\$7,127,587	\$21,500,000
Community Health Program					
City of Denver (V97810501)	\$1,119,652	\$0	\$109,123	\$109,123	
CDPHE - Environmental Epidemiology (V97810101)	\$568,902	\$11,612	\$146,122	\$157,734	
Subtotal - Community Health Program	\$1,688,554	\$11,612	\$255,245	\$266,857	\$1,500,000
Soil Sampling					
URS - START 2 Contract TDD 0305-0005A (1)	\$250,000	\$13,548	\$235,023	\$248,571	\$400,000
Subtotal - Soil Sampling		\$13,548	\$235,023	\$248,571	
Total Obligated/Expenditures/Budget	\$12,930,798	\$685,686	\$6,957,329	\$7,643,015	\$23,400,000
Contingency					\$2,600,000
Total Budget					\$26,000,000

Notes:

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Vasquez Boulevard/Interstate 70 Superfund Site  
 Estimated Project Expenditures  
 For October, 2005

Item	Funds Obligated	This Month	Expenditures Previous	Total	SSC Budget
Residential Property Cleanup					
Army Corps of Engineers IAG # DW-96-9539110-U	\$10,927,244	\$280,100	\$7,064,781	\$7,344,881	
Community Relations Plan (Summit Tech Resources)	\$65,000	\$0	\$62,806	\$62,806	
Subtotal - Residential Property Cleanup	\$10,992,244	\$280,100	\$7,127,587	\$7,407,687	\$21,500,000
Community Health Program					
City of Denver (V97810501)	\$1,119,652	\$0	\$109,123	\$109,123	
CDPHE - Environmental Epidemiology (V97810101)	\$568,902	\$28,675	\$157,734	\$186,409	
Subtotal - Community Health Program	\$1,688,554	\$28,675	\$266,857	\$295,532	\$1,500,000
Soil Sampling					
URS - START 2 Contract TDD U305-0005A (1)	\$250,000	\$6,837	\$248,571	\$255,408	\$400,000
Subtotal - Soil Sampling		\$6,837	\$248,571	\$255,408	
Total Obligated/Expenditures/Budget	\$12,930,798	\$315,612	\$7,643,015	\$7,958,627	\$23,400,000
Contingency					\$2,600,000
Total Budget					\$26,000,000

Notes:

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Vasquez Boulevard/Interstate 70 Superfund Site  
Estimated Project Expenditures  
For November, 2005

Item	Funds Obligated	Expenditures			SSC Budget
		This Month	Previous	Total	
Residential Property Cleanup					
Army Corps of Engineers IAG # DW-96-9539110-0	\$10,927,244	\$26,975	\$7,344,881	\$7,371,856	
Community Relations Plan (Summit Tech Resources)	\$65,000	\$0	\$62,806	\$62,806	
Subtotal - Residential Property Cleanup	\$10,992,244	\$26,975	\$7,407,687	\$7,434,662	\$21,500,000
Community Health Program					
City of Denver (V97810501)	\$1,119,652	\$51,209	\$109,123	\$160,332	
CDPHE - Environmental Epidemiology (V97810101)	\$568,902	\$20,952	\$186,409	\$207,361	
Subtotal - Community Health Program	\$1,688,554	\$72,161	\$295,532	\$367,693	\$1,500,000
Soil Sampling					
URS - START 2 Contract TDD 0305-0005A (1)	\$225,000	\$0	\$255,408	\$255,408	\$400,000
URS - START 3 Contract TDD 0509-0012	\$25,000	\$15,854	\$0	\$15,854	
Subtotal - Soil Sampling	\$250,000	\$15,854	\$255,408	\$271,262	
Total Obligated/Expenditures/Budget	\$12,930,798	\$114,990	\$7,958,627	\$8,073,617	\$23,400,000
Contingency					\$2,600,000
Total Budget					\$26,000,000

Notes:

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Vasquez Boulevard/Interstate 70 Superfund Site  
Estimated Project Expenditures  
For December, 2005

Item	Funds Obligated	Expenditures			SSC Budget
		This Month	Previous	Total	
Residential Property Cleanup					
Army Corps of Engineers IAG # DW-96-9539110-0	\$10,927,244	\$765,616	\$7,371,856	\$8,137,472	
Community Relations Plan (Summit Tech Resources)	\$65,000	\$0	\$62,806	\$62,806	
Subtotal - Residential Property Cleanup	\$10,992,244	\$765,616	\$7,434,662	\$8,200,278	\$21,500,000
Community Health Program					
City of Denver (V97810501)	\$1,119,652	\$0	\$160,332	\$160,332	
CDPHE - Environmental Epidemiology (V97810101)	\$568,902	\$20,351	\$207,361	\$227,712	
Subtotal - Community Health Program	\$1,688,554	\$20,351	\$367,693	\$388,044	\$1,500,000
Soil Sampling					
URS - START 2 Contract TDD 0305-0005A (1)	\$225,000	\$0	\$255,408	\$255,408	\$400,000
URS - START 3 Contract TDD 0509-0012	\$25,000	\$1,722	\$15,854	\$17,576	
Subtotal - Soil Sampling	\$250,000	\$1,722	\$271,262	\$272,984	
Total Obligated/Expenditures/Budget	\$12,930,798	\$787,689	\$8,073,617	\$8,861,306	\$23,400,000
Contingency					\$2,600,000
Total Budget					\$26,000,000

Notes:

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